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पिसी हुई चबाने वाली तम्बाकू — विशिष्टि  
( तीसरा पुनरीक्षण )

Minced Type Chewing Tobacco —  
Specification  
( Third Revision )

ICS 65.160

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## FOREWORD

This Indian Standard (Third Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Tobacco and Tobacco Products Sectional Committee had been approved by the Food and Agriculture Division Council.

A number of brands of minced type chewing tobacco are manufactured in the country depending upon the leaf tobacco used, the processing technique employed and the admixture of various ingredients used. The range of brands of chewing tobacco, minced type, produced in the country is very wide and it was felt necessary to formulate an Indian Standard.

This standard was originally published in 1965 and subsequently revised in 1973 and 1994. This revision is being brought out to update its provisions in the light of developments in analytical methods, current industrial and trade practices, and the Prevailing Statutory Packaging and Tobacco Control Rules and Regulations.

While formulating this standard, necessary consideration has been given to the relevant rules prescribed by the Government of India under the *Cigarettes and Other Tobacco Products Act (COTPA) 2003* and the rules and regulations framed thereunder and the *Legal Metrology (Packaged Commodities) Rules, 2011*. This standard is however, subject to the restriction imposed under these, wherever applicable.

The composition of the technical committee responsible for formulation of this standard is given at Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

# *Indian Standard*

## MINCED TYPE CHEWING TOBACCO — SPECIFICATION

### ( Third Revision )

**1 SCOPE**

This standard prescribes the requirements, method of sampling and test for minced type chewing tobacco.

**2 REFERENCES**

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
16236 : 2015/ ISO 2817 : 1999	Tobacco and tobacco products — Determination of silicated residues insoluble in hydrochloric acid
16832 : 2018	Tobacco and tobacco products — Determination of total alkaloids as nicotine by continuous flow analysis — An alternate method eliminating use of potassium cyanide

<i>IS No.</i>	<i>Title</i>
1070 : 1992	Reagent grade water — Specification ( <i>third revision</i> )
3110 : 2015	Silver leaf — Specification ( <i>second revision</i> )
4905 : 2015	Random sampling and randomization procedures ( <i>first revision</i> )
5643 : 2019	Tobacco and tobacco products — Method of test for tobacco ( <i>third revision</i> )
10335 : 2016	Tobacco and tobacco products — Glossary of terms ( <i>third revision</i> )
12014 (Part 1) : 1986	Methods for determination of organic preservatives in foodstuffs: Part 1 Benzoic acid and its salts
12014 (Part 3) : 1986	Methods for determination of organic preservatives in food stuffs: Part 3 Sorbic acid and its salts
16132 : 2014/ ISO 2881 : 1992	Tobacco and Tobacco Products — Determination alkaloid content — Spectrometric Method

**3 DESCRIPTION**

**3.1** Minced type chewing tobacco is a smokeless tobacco preparation made from tobacco blend powder which may be spiced and flavoured. It is usually chewed along with betel nut and paan (betel leaf).

**3.2** Chewing tobacco blend consists of tobaccos grown in identified areas, specially cured and processed for chewing purposes. Different types of Indian tobaccos are described in IS 10335. Cured leaf is powdered and sieved through a 0.5 mm sieve to remove the fine powder and then through a 1 mm sieve to remove the coarser particles. The sieved tobacco blend is mixed with aromatic spices, floral essences, attars, flavours and menthol. Expensive varieties of this preparation may also contain saffron and silver foil.

**3.3** Minced type chewing tobacco may contain salts of benzoic acid and sorbic acid as preservatives.

**4 REQUIREMENTS****4.1 Additives**

**4.1.1** Only pure spices complying with their respective standard specifications shall be used.

**4.1.2** Salts of benzoic acid and/or sorbic acid shall be used as preservatives, if required, to a maximum level of 0.5 percent by dry mass of the finished product as analysed by methods prescribed in IS 12014 (Part 1) and (Part 3) respectively.

**4.2 Sliver Foil (Leaf)**

Silver foils (leaf), if used, shall conform to IS 3110.

**4.3** The material shall also conform to the requirements prescribed in Table 1.

**5 PACKING**

The material shall be packed in retail containers made of waxed paper, glassine paper, glass, suitably lacquered tinfoil and permitted laminated pouches which will help in the preservation of moisture and aroma. The quantity per retail container and the type of container shall be as agreed to between the purchaser and the vendor. These retail containers may then be packed in bulk container as agreed to between the purchaser and the manufacturer.

**6 MARKING**

**6.1** The following particulars shall be legibly and indelibly marked on each retail package in addition to the declarations as required under any other applicable statutory rules and regulations:

- a) Name of product;
- b) Brand name or trade mark, if any;
- c) Name and address of the manufacturer;
- d) Net quantity;
- e) Any other marking required under the *Legal Metrology (Packaged Commodities) Rules, 2011*; and

- f) Statutory health warnings in the manner and in accordance with the provisions of the rules and regulations framed under the *Cigarettes and Other Tobacco Products Act, 2003 (COTPA)*.

**6.2 BIS Certification Marking**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

**7 SAMPLING**

The method of drawing representative samples of the material shall be as prescribed in Annex A or as agreed to between the purchaser and vendor. The conformity of the material to the requirements of this specification shall be determined by testing the samples as prescribed in 4 and A-4 of Annex A.

**8 TESTS**

**8.1** Tests shall be carried out as prescribed in 4, col 4 of Table 1 and A-4 of Annex A.

**8.2 Quality of Reagents**

Unless specified otherwise, pure chemicals shall be employed in tests and distilled water (*see* IS: 1070) shall be used where the use of water as reagent is intended.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

**Table 1 Requirements for Minced Type Chewing Tobacco**  
( Clauses 4.3, 8.1 and A-4 )

Sl No.	Characteristics	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Oven moisture content, percent by mass <i>Max</i> <sup>1)</sup>	27.0	6 of IS 5643
ii)	Total alkaloids as nicotine (on dry basis), percent by mass, <i>Max</i> <sup>2)</sup>	6.0	8 of IS 5643 or IS 16132 or IS 16832
iii)	Total ash (on dry basis), percent by mass, <i>Max</i>	26.0	10 of IS 5643
iv)	Silicated residues insoluble in hydrochloric acid (on dry basis), percent by mass, <i>Max</i>	5.0	IS 16236

<sup>1)</sup> Oven moisture is also known as 'Loss on drying' or 'Oven volatiles'.

<sup>2)</sup> In case of any dispute, IS 5643 shall be the reference test method for determination of total alkaloid as nicotine.

## ANNEX A

( Clauses 7 and 8.1 )

## SAMPLING OF MINCED TYPE CHEWING TOBACCO

**A-1 GENERAL REQUIREMENTS OF SAMPLING**

**A-1.0** In drawing, preparing, storing and handling samples, the following precautions and directions shall be observed.

**A-1.1** Precautions shall be taken to draw the samples so as to protect the samples, the material being sampled, the sampling instruments and the receptacles for samples from loss or gain of moisture and from adventitious contamination.

**A-1.2** The samples shall be placed in clean and dry receptacles. The sample receptacle shall be sealed air tight after filling and marked with full details of sampling, date of manufacture, name of the manufacturer and other important particulars of the consignment.

**A-1.3** Samples shall be stored in such a manner that the conditions of storage do not unduly affect the quality of the material.

**A-1.4** Sampling shall be done by a person agreed to between the purchaser and vendor and in the presence of the purchaser (or his representative) and the vendor (or his representative).

**A-2 SCALE OF SAMPLING**

**A-2.1** All the bulk containers in a single consignment of the material pertaining to the same brands shall constitute a lot. If the consignment is declared to consist of different brands, the bulk containers belonging to the same brand shall be grouped together to constitute separate lots.

**A-2.1.1** Samples shall be tested for each lot for ascertaining conformity of the materials to the requirements of this specification.

**A-2.2** The number of bulk containers to be selected from the lot shall depend on the size of the lot, and shall be in accordance with Table 2.

**A-2.3** These bulk containers shall be chosen at random from the lot and for this purpose some random number table as agreed to between the purchaser and the vendor shall be used (*see* IS 4905).

**Table 2 Number of Bulk Containers to be Selected for Sampling**

( Clause A-2.2 )

Lot Size to be Selected	Number of Bulk Containers
( <i>N</i> )	( <i>n</i> )
(1)	(2)
Below 5	2
6 to 10	3
Over 10	4

**A-3 PREPARATION OF SAMPLES****A-3.1 Individual Samples**

**A-3.1.1** The number of retail containers to be taken at random from each selected bulk container shall be sufficient so as to give about 150 g of the material. The material so taken out shall be mixed together; about 50 g will be set aside for preparing the composite sample (*see* A-3.2) and the remaining shall be divided into three equal parts each of minimum 30 g. Each part shall constitute an individual sample representing the bulk container from which it was drawn and shall be transferred immediately to thoroughly clean and dry receptacles and sealed air-tight. The receptacles shall be labelled with the particulars given under A-1.2.

**A-3.1.2** The individual samples so obtained from the lot shall be divided into three sets in such a way that every set has an individual sample representing each selected bulk container. One of these sets shall be marked for the purchaser, another for the vendor and the third for the referee and all the three sets shall bear the seals of the buyer and the vendor.

**A-3.2 Composite Sample**

**A-3.2.1** From the materials set aside from each selected bulk container (*see* A-3.1.1), equal quantities shall be mixed together to form a composite sample of minimum 150 g for the lot.

**A-3.2.2** The composite sample (*see* A-3.2.1) shall be divided into three equal parts. Each part shall constitute a composite sample representing the lot and shall be transferred immediately to thoroughly clean and dry receptacles and sealed air-tight. The receptacles shall

be labelled with the particulars given under **A-1.2** and marked one for the purchaser, another for the vendor and the third for the referee. All the three samples shall bear the seals of the purchaser and the vendor.

#### **A-3.3 Referee Sample**

Referee sample shall consist of a set of individual samples (*see A-3.1.2*) and a composite sample (*see A-3.2*) marked for this purpose and shall bear the seals of the purchaser and the vendor. These shall be kept at a place agreed to between the two to be used in case of dispute between the two.

#### **A-4 TESTING PLAN**

**A-4.1** Tests for the determination of moisture and total nicotine alkaloids (Table 1) shall be conducted in duplicate on each of the individual sample in a set (*see A-3.1*).

**A-4.2** Tests for the determination of the remaining characteristics of 4 and of Table 1 shall be conducted in duplicate on the composite sample (*see A-3.2*).

#### **A-5 CRITERIA OF CONFORMITY**

**A-5.1** A lot shall be declared as conforming to the specification if the conditions prescribed in **A-5.1.1** and **A-5.1.2** are satisfied.

**A-5.1.1** The test results on each of the individual samples for determination of requirements given in **A-4.1** shall satisfy the corresponding specification requirements.

**A-5.1.2** The test results on the composite samples for the remaining characteristics given in **A-4.2** shall satisfy the corresponding specification requirements.

**ANNEX B***( Foreword )***COMMITTEE COMPOSITION**

Tobacco and Tobacco Products Sectional Committee, FAD 04

<i>Organization</i>	<i>Representative(s)</i>
Central Tobacco Research Institute, Rajahmundry	DR D. DAMODAR REDDY ( <b>Chairman</b> )
Central Tobacco Research Institute, Rajahmundry	DR C. CHANDRASEKHARA RAO
All India Bidi Industry Federation, Pune	SHRI ARJUN KHANNA
Consumer Education and Research Centre, Ahmedabad	MS DOLLY A. JANI SHRI HARARAYTRIPATHI ( <i>Alternate</i> )
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The Indian Tobacco Association, Guntur	DR P. SRINIVAS HON SECRETARY ( <i>Alternate</i> )
The Tobacco Institute of India, New Delhi	SHRI SHARADTANDAN DR P. P. SINGH ( <i>Alternate</i> )
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National Tobacco Testing Laboratory, Mumbai	DR RAMAN MOHAN SINGH DR K. V. SATYANARAYANA ( <i>Alternate I</i> ) DR SOBIA GHANI ( <i>Alternate II</i> )

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*Member Secretary*  
SHRIMATI NAVITA YADAV  
SCIENTIST 'D' (FAD), BIS





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